

ESD NUCLEAR ENERGY/WASTE PROGRAM PUBS LIST, 2007–2012 (TO DATE)

2012 (January–March)

Peer Reviewed Journal Articles and Book Chapters, 2012 (to date)

- Dobson, P.F. T.A. Ghezzehei, P.J. Cook, J.A. Rodriguez, L. Villalba, and R. de la Garza (2012), Heterogeneous seepage at the Nopal I natural analogue site, Chihuahua, Mexico. *Hydrogeology Journal*, 20, 155–166; DOI: 10.1007/s10040-011-0783-5. LBNL-1127E-2011.
- Faybishenko, B. (2012), Fuzzy-probabilistic calculations of evapotranspiration. In: *Evapotranspiration—Remote Sensing and Modeling*, A. Irmak, ed., pp. 81–96. InTech, ISBN 978-953-307-808-3.
- Tsang, C.F., J.D. Barnichon, J.T. Birkholzer, X.L. Li, H.H. Liu, and X. Sillen (2012), Coupled thermo-hydro-mechanical processes in the near field of a high-level radioactive waste repository in clay formations. *International Journal of Rock Mechanics and Mining Sciences*, 49, 31–44.

LBNL Reports, 2012 (to date)

- Liu, H.H. (2012), Optimality and Conductivity for Water Flow: From Landscapes, to Unsaturated Soils, to Plant Leaves. LBNL Report, Berkeley, California.

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- Danko, G., D. Bahrami, and J.T. Birkholzer (2011), A turbulent transport network model in MULTIFLUX coupled with TOUGH2. *Journal of Nuclear Technology*, 174(3), 327–341. LBNL-4856E.
- Halecky, N., J.T. Birkholzer, and P. Peterson (2011), Natural convection in tunnels at Yucca Mountain and impact on drift seepage. *Journal of Nuclear Science and Technology*, 174(11), 327–341. LBNL-3489E.
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- Xu, T., R. Senger, and S. Finsterle (2011), Bentonite alteration due to thermal-hydro-chemical processes during the early thermal period in a nuclear waste repository. *Nuclear Technology*, 174 (3), 438–451. LBNL-4544E.
- Zheng, L., J. Samper, and L. Montenegro (2011), A coupled THC model of the FEBEX *in situ* test with bentonite swelling and chemical and thermal osmosis. *Journal of Contaminant Hydrology*, published online, DOI:10.1016/j.jconhyd.2011.06.003. LBNL-4846E.

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- Birkholzer, J.T. (2011), Disposal R&D in the Used Fuel Disposition Campaign: A Discussion of Opportunities for Active International Collaboration. LBNL Report, Berkeley, California. LBNL-5012E.
- Liu, H.-H., L. Li, L. Zheng, J.E. Houseworth, and J. Rutqvist (2011), Investigations of Near-Field Thermal-Hydrologic-Mechanical-Chemical Models for Radioactive Waste Disposal in Clay/Shale Rock. LBNL Report. Berkeley, California. LBNL-4872E.

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- Fransson, Å., C.-F. Tsang, J. Rutqvist, and G. Gustafson (2010), Estimation of deformation and stiffness of fractures close to tunnels using data from single-hole hydraulic testing and grouting. *International Journal of Rock Mechanics and Mining Sciences*, 47 (6), 887–893, LBNL-3590E.
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